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January 24, 1997

NORTEL
NORTHERN TELECOM

William Caton
Acting Secretary
Federal Communications Commission
1919 M Street, N.W. - Room 222
Washington, D.C. 20554

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JAN 27 1997

RE: Ex Parte File, CC Docket No. 95-116
Local Number Portability

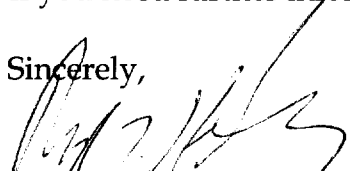
FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY

Dear Sir:

Pursuant to the Commission's rules, this letter provides notice that on January 23rd, Dan Stone and the undersigned both of Nortel (Northern Telecom) met with Jeannie Su, Linda Kinney, Susan McMaster, Carol Matthey, and Vaikunth Gupta, all members of the staff of the Commission's Common Carrier Bureau, to discuss issues arising in the referenced proceeding. The enclosed presentation was the basis for the discussion and was provided to the meetings' participants.

If you need further information, please let me know.

Sincerely,


Raymond L. Strassburger
Director, Government Relations - Telecommunications Policy
Enclosure

Copy w/o enclosure:

Jeannie Su
Linda Kinney
Susan McMaster
Carol Matthey
Vaikunth Gupta

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LOCAL NUMBER
PORTABILITY

Discussion on C.C. Docket 95-116
January 23, 1997

Nortel's DMS 100 LNP Product

- **Software product to support LRN based LNP**
 - introduces a new AIN, office wide, LNP service specific trigger into the existing AIN call model
 - some switches will require hardware infrastructure upgrades to address capacity needs as a result of originating LRN trigger
- **Query on Release (QoR) available as an optional feature designed to reduce queries**
 - reduces requirements for hardware infrastructure upgrades
- **Involves changes to ISUP signaling for both LRN and QoR**
- **Involves many changes to AMA billing**
- **New tables, Operational Measurements, tools**

DMS 100 LNP Delivery

- **Support AIN LRN approach utilizing the new LNP Trigger, which allows DMS-100/200 availability of LNP functionality in 2Q97 - Query on Release is optional**

Planned Availability

- **Software Release NA007**
- **Verification Office load - April 4, 1997**
- **General Availability - June 14, 1997**

Operator Services LNP Delivery

Planned Availability

- **Software Release TOPS07**
- **Verification Office load - July 1997**
- **General Availability - September 1997**

DMS 10 LNP Delivery

Planned Availability

LRN

- **Software Release 410.10**
- **Verification Office load - 2Q97**
- **Availability - 3Q97**

QoR

- **Software Release 410.20**
- **Verification Office load - 3Q97**
- **Availability - 4Q97**

STP Program Delivery

Planned Availability

- Software Release STPBASE004
- Verification Office load - December 1997
- General Availability - April 1998

STP002/003 can accommodate LNP with limited 10-digit GTT

DMS 100 LRN Development Progress

NORTEL committed in Nov.'95 to deliver LRN-LNP by 2Q97

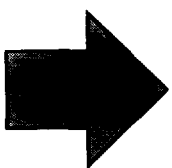
Development Milestones	Plan	Actual
2Q97 Industry Commitment (ICC Iss 1.01 April 3/96)	Nov. 95	Nov. 95
NA007 Development Start	April 96	April 96
NA007 Design Complete (Doc/Coding)	Aug 30/96	Sept 20/96
Gate 1	Aug 30/96	Sept 20/96
LNP Product Verification Strategy Complete	Sept 6/96	Sept 6/96
LNP First Call	Oct 11/96	Oct 11/96
LNP Pre-G2 Product Description Available	Oct 11/96	Oct 11/96
NA007 Product Test Plan Complete	Nov 15/96	Nov 15/96
NA007 Design Complete	Nov 22/96	Nov 22/96
NA007 Product Verification Start	Dec 1/96	Dec 1/96
NA007 Product Verification Complete	Mar 29/97	
Gate 2	April 4/97	
Gate 3	June 14/97	

Nortel Staffing Assigned

- Full development team for NA007
 - Design prime per customer
 - Regional LNP primes
 - Regional LNP Performance Engineers
 - LNP Customer Training Course prime
 - Overall LNP Implementation Project Manager
 - Joint Nortel/Customer Implementation Activity
 - All regions involved in 7 MSA's for 1997 now engaged
 - Joint Nortel/Customer Validation Teams
 - 2 Verification Office (VO) sites planned
 - Detailed planning underway
-

Nortel Participation in LNP Requirements Process

- **ICC LNP Switching & Signaling Requirements**

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- Nov. 15, 1995 - 1st industry-developed draft produced
 - Feb. 12, 1996 - Issue 1.00 First Release
 - Apr. 3, 1996 - Issue 1.01 Access Module Billing Enhancements
 - June 17, 1996 - Issue 1.02 AMA & Feature Interactions clarifications
 - Sept. 4, 1996 - Issue 1.03 Clarification of JIP in AMA, unconditional query, switch LRN support

- **Operator Services Switching Requirements - Issue 1.1 June 20, 1996**

- Stable requirements

- **Bellcore Generic Requirements**

- Feb. 1996 - activity started, including ICC, QoR & PORC requirements
 - » Bellcore adopted Nortel QOR Specification: Basis of NA007 Product
 - May, 1996 - LNP GR-2936-CORE Draft issued
 - August 1996 - Issue 1 released
 - Nov. 1996 - Revised Issue 1 released - significant changes
 - » Still in comment phase
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LNP Requirements Process (continued)

- **Other State / PUC Requirements**

- Active Switching & Signaling Requirements Committees in

- » Maryland,

- » Georgia,

- » California,

- » Florida,

- » Washington/ Colorado



- *Acceleration of future ICC req'ts*
- *Re-prioritization of Bellcore req'ts*
- *Additional requirements*

- **No consolidated/ coordinated process**

LNP Requirements continue to evolve in various forums.

A single set of national requirements is needed to ensure network reliability and timely delivery of customer requirements as LNP evolves.

LNP Rollout - Planning View

- | | <u>Availability</u> |
|---|----------------------------|
| <ul style="list-style-type: none">• Release 1 Service Provider Portability<ul style="list-style-type: none">- Illinois Commerce Commission GSSR Dated April 3, 1996 | NA007 6/97 |
| <ul style="list-style-type: none">• Release 2 Service Provider Portability<ul style="list-style-type: none">- ICC Additions, post April 3, 1996 | NA008 11/97 |
| <ul style="list-style-type: none">• Release 3 Service Provider Portability<ul style="list-style-type: none">- Bellcore GR based for Portability within Rate Center | NA009 2Q98 |
| <ul style="list-style-type: none">• Release 4 Location Portability<ul style="list-style-type: none">- Place-holder for Portability Outside Rate Center | NA010 4Q98 |

Query on Release Status - Update

- **Nortel is continuing to act as editor of QoR specifications until QoR is incorporated into “industry” requirements**
 - Specifications are maintained on the Nortel Web site
- **ANSI T1S1.3 developing both QoR and LRN standards**
 - Pending FCC decision on RBOC appeal for QoR
 - ANSI will go for Letter Ballot in March 1997
- **Current QoR design conforms to definitions as per both Nortel specifications and Bellcore requirements**

- **QoR is an option used in conjunction with LRN**
 - available on both DMS 100 and DMS 10
- **QoR can be enabled or disabled on a per NPA-NXX basis independently at each originating office**
- **Service provider may choose to support QoR as an intranetwork option or an internetwork option**
- **Use of QoR within a network or portion of a network does not preclude other carriers from deploying LRN with or without the use of QoR**
 - QoR 'release' capability being packaged by Nortel as part of LRN thus enabling donor networks to 'release' even though they do not use QoR within their network

- **QoR minimizes LNP queries thereby reducing network resource requirements for:**
 - Switch Real Time
 - SCP Real Time
 - SS7 link capacity (SSP-to-STP & STP-to-SCP)
 - STP Real Time
 - STP Port Capacity
- **QoR has the potential for significant reduction in start up and operation costs for LNP, particularly in low penetration areas of ported numbers**
- **QoR allows growth of queries to match growth of ported numbers**

- **Monitor progress toward a single, national, requirement definition for LNP solution**
 - key to ensuring minimum industry costs and time to deploy
 - key to maintaining overall network reliability
 - **Allow service providers to choose options, such as QoR, to:**
 - enable cost containment
 - improve network efficiencies
 - reduce deployment risks
 - **Encourage convergence of requirements put forth by industry forums as LNP capability evolves**
 - Portability Within the Rate Center (Service Provider Portability)
 - Portability Outside of Rate Center (Location Portability)
 - Services Portability
 - Wireless Service Provider Number Portability
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